

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	101	nakamura-daijiro.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2009/04/20 17:59
S2	252	192/223.1.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2009/04/20 19:30
S3	439	192/15.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2009/04/20 19:30
S4	377	192/16.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2009/04/20 19:30
S5	1042	S2 S3 S4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2009/04/20 19:30
S6	22	S5 and (spindle same lock \$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2009/04/20 19:34
S7	60	("1503809"   "3243023"   "3545776"   "3872951"   "4173849"   "4199160"   "4390311"   "4407615"   "4460296"   "4498682"   "4573380"   "4582331"   "4695065"   "4775269"   "4804048"   "4819319"   "4824298"   "4834192"   "4848779"   "5016501"   "5044643"   "5172923"   "5183274"   "5236206"   "5261679"   "5271471"   "5272845"   "5277527"   "5322303"   "5325931"	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/20 19:36

		"5375857"   "5375858"   "5407215"   "5430944"   "5458345"   "5464230"   "5533581"   "5558478"   "5577872"   "5624013"   "5653294"   "5704257"   "5732805"   "5947254"   "5984022"   "6010426"   "6176801"   "6273200"   "6277013"   "6279714"   "6305481"   "6311787"   "6497316"   "6702090"). PN. OR ("7063201"). URPN.				
S8	6	("20020130007"   "5624013"   "6068097"). PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2009/04/20 19:38
S9	252	192/223.1.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2009/04/20 21:40
S10	439	192/15.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2009/04/20 21:40
S11	377	192/16.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2009/04/20 21:40
S12	1042	S9 S10 S11	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2009/04/20 21:40
S13	85	S12 and (lock\$3 and ((elastic or resilient or spring) same slid\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2009/04/20 21:40
S14	22	S12 and (spindle same lock\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2009/04/20 21:41

S15	60	(("1503809"   "3243023"   "3545776"   "3872951"   "4173849"   "4199160"   "4390311"   "4407615"   "4460296"   "4498682"   "4573380"   "4582331"   "4695065"   "4775269"   "4804048"   "4819319"   "4824298"   "4834192"   "4848779"   "5016501"   "5044643"   "5172923"   "5183274"   "5236206"   "5261679"   "5271471"   "5272845"   "5277527"   "5322303"   "5325931"   "5375857"   "5375858"   "5407215"   "5430944"   "5458345"   "5464230"   "5533581"   "5558478"   "5577872"   "5624013"   "5653294"   "5704257"   "5732805"   "5947254"   "5984022"   "6010426"   "6176801"   "6273200"   "6277013"   "6279714"   "6305481"   "6311787"   "6497316"   "6702090"). PN. OR ("7063201"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/20 21:41
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S17	87	S14 S15 S16	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2009/04/20 21:41
S18	79	S13 not S17	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2009/04/20 21:41
S19	166	S13 S17	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2009/04/20 21:41
S20	20	S12 and tool and lock\$3 and (shaft or spindle)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2009/04/20 22:28

S21	9	S20 not S19	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2009/04/20 22:28
S22	175	S19 S20	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2009/04/20 22:29
S23	13674	"192"/\$.ccls. and ((spindle or shaft) same lock\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2009/04/20 22:37
S24	1377	S23 and tool and lock\$3 and (shaft or spindle)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2009/04/20 22:38
S25	63	(("1503809"   "3243023"   "3545776"   "3872951"   "4173849"   "4199160"   "4390311"   "4407615"   "4460296"   "4498682"   "4573380"   "4582331"   "4695065"   "4775269"   "4804048"   "4819319"   "4824298"   "4834192"   "4848779"   "5016501"   "5044643"   "5172923"   "5183274"   "5236206"   "5261679"   "5271471"   "5272845"   "5277527"   "5322303"   "5325931"   "5375857"   "5375858"   "5407215"   "5430944"   "5458345"   "5464230"   "5533581"   "5558478"   "5577872"   "5624013"   "5653294"   "5704257"   "5732805"   "5947254"   "5984022"   "6010426"   "6176801"   "6273200"   "6277013"   "6279714"   "6305481"   "6311787"   "6497316").PN. OR ("6702090").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/20 22:57

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S27	18	("2873832"   "2995226"   "3976172"   "3999642"   "5624013").PN. OR ("6010426").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/20 22:59
S28	0	S15 not (S22 S25 S26 S27)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2009/04/20 23:24
S29	192	S22 S25 S26 S27	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2009/04/20 23:24
S30	252	192/223.1.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2009/12/30 12:40
S31	440	192/15.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2009/12/30 12:40

S32	377	192/16.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2009/12/30 12:40
S33	1043	S30 S31 S32	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2009/12/30 12:40
S34	85	S33 and (lock\$3 and ((elastic or resilient or spring) same slid\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2009/12/30 12:40
S35	22	S33 and (spindle same lock\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2009/12/30 12:40
S36	61	("1503809"   "3243023"   "3545776"   "3872951"   "4173849"   "4199160"   "4390311"   "4407615"   "4460296"   "4498682"   "4573380"   "4582331"   "4695065"   "4775269"   "4804048"   "4819319"   "4824298"   "4834192"   "4848779"   "5016501"   "5044643"   "5172923"   "5183274"   "5236206"   "5261679"   "5271471"   "5272845"   "5277527"   "5322303"   "5325931"   "5375857"   "5375858"   "5407215"   "5430944"   "5458345"   "5464230"   "5533581"   "5558478"   "5577872"   "5624013"   "5653294"   "5704257"   "5732805"   "5947254"   "5984022"   "6010426"   "6176801"   "6273200"   "6277013"   "6279714"   "6305481"   "6311787"   "6497316"   "6702090"). PN. OR ("7063201"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/12/30 12:40
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S38	88	S35 S36 S37	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2009/12/30 12:40
S39	167	S34 S38	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2009/12/30 12:40
S40	20	S33 and tool and lock\$3 and (shaft or spindle)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2009/12/30 12:40
S41	176	S39 S40	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2009/12/30 12:40
S42	64	("1503809"   "3243023"   "3545776"   "3872951"   "4173849"   "4199160"   "4390311"   "4407615"   "4460296"   "4498682"   "4573380"   "4582331"   "4695065"   "4775269"   "4804048"   "4819319"   "4824298"   "4834192"   "4848779"   "5016501"   "5044643"   "5172923"   "5183274"   "5236206"   "5261679"   "5271471"   "5272845"   "5277527"   "5322303"   "5325931"   "5375857"   "5375858"   "5407215"   "5430944"   "5458345"   "5464230"   "5533581"   "5558478"   "5577872"   "5624013"   "5653294"   "5704257"   "5732805"   "5947254"   "5984022"   "6010426"   "6176801"   "6273200"   "6277013"   "6279714"   "6305481"   "6311787"   "6497316").PN. OR ("6702090").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/12/30 12:40

S43	61	("1503809"   "3243023"   "3545776"   "3872951"   "4173849"   "4199160"   "4390311"   "4407615"   "4460296"   "4498682"   "4573380"   "4582331"   "4695065"   "4775269"   "4804048"   "4819319"   "4824298"   "4834192"   "4848779"   "5016501"   "5044643"   "5172923"   "5183274"   "5236206"   "5261679"   "5271471"   "5272845"   "5277527"   "5322303"   "5325931"   "5375857"   "5375858"   "5407215"   "5430944"   "5458345"   "5464230"   "5533581"   "5558478"   "5577872"   "5624013"   "5653294"   "5704257"   "5732805"   "5947254"   "5984022"   "6010426"   "6176801"   "6273200"   "6277013"   "6279714"   "6305481"   "6311787"   "6497316"   "6702090"). PN. OR ("7063201"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/12/30 12:40
S44	18	("2873832"   "2995226"   "3976172"   "3999642"   "5624013").PN. OR ("6010426").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/12/30 12:40
S45	193	S41 S42 S43 S44	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2009/12/30 12:40
S46	1	S45 and @pd> "20090420"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2009/12/30 12:40
S47	825	MILWAUKEE.as.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2009/12/30 12:44
S48	243	S47 and lock\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2009/12/30 12:45



S49	50	S48 and teeth	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2009/12/30 12:45
S50	31	S49 and (cam or wedge)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2009/12/30 12:45
S51	61	("1503809"   "3243023"   "3545776"   "3872951"   "4173849"   "4199160"   "4390311"   "4407615"   "4460296"   "4498682"   "4573380"   "4582331"   "4695065"   "4775269"   "4804048"   "4819319"   "4824298"   "4834192"   "4848779"   "5016501"   "5044643"   "5172923"   "5183274"   "5236206"   "5261679"   "5271471"   "5272845"   "5277527"   "5322303"   "5325931"   "5375857"   "5375858"   "5407215"   "5430944"   "5458345"   "5464230"   "5533581"   "5558478"   "5577872"   "5624013"   "5653294"   "5704257"   "5732805"   "5947254"   "5984022"   "6010426"   "6176801"   "6273200"   "6277013"   "6279714"   "6305481"   "6311787"   "6497316"   "6702090"). PN. OR ("7063201"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/30 12:53
S52	41301	(cam or teeth) and lock\$3 and spindle	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2009/12/30 14:35
S53	29307	S52 and pins	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2009/12/30 14:36
S54	206	S53 and (predetermined with play)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2009/12/30 14:36

**EAST Search History (Interference)**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	0	((predetermined with play) and lock and teeth and (project\$3 near3 pins) and retain\$3 and (guide near4 (groove hole)) and unlock \$3).clm.	US-PGPUB; USPAT; UPAD	OR	ON	2009/12/31 10:52
L2	0	((predetermined with play) and lock and teeth and (project\$3 near3 pins) and retain\$3 and (guide with (groove hole)) and unlock \$3).clm.	US-PGPUB; USPAT; UPAD	OR	ON	2009/12/31 10:53
L4	0	(play and lock and teeth and (project\$3 near3 pins) and retain\$3 and (guide with (groove hole)) and unlock\$3).clm.	US-PGPUB; USPAT; UPAD	OR	ON	2009/12/31 10:53

**12/31/2009 10:54:41 AM****C:\Documents and Settings\jholmes2\My Documents\EAST\Workspaces\10598457.wsp**